• RUDRAPRASAD CONSULTANTS

NAME OF WORK: Package2, includes 5 works of Rs.245.00 lakhs

1)Improvements to Roads and Drains at Mariyannapalya Church to Defence Layout and Dynasty Layout in Ward No:06 Byatarayanapura Sub Division.

2)Improvements to Drains and Asphalting to Roads at Balaji layout Near Railway Gate in Ward No:06 Byatarayanapura Sub Division.

3)Improvements to Drains and Asphalting to Roads at Vidyasagara Layout and Surrounding area in Ward No: 06 Byatarayanapura Sub Division.

4)Improvements to Drains and Asphalting to Roads at Bharathnagara saw mill Road in Ward No: 06 Byatarayanapura Sub Division.

5) Improvements to Drains and Asphalting to Roads at Shiradi Sai Nagar and Hegadenagar in Ward No:06 Byatarayanapura Sub Division.

SECOND & PART BILL

MEASUREMENT SHEET

SUBMITTED TO B.B.M.P,
BANGALORE

#3, 7th Main Malleswaram, Bangalore – 560003
Telefax: 9180 23444801, Mobile: 91 9972924526 Web: www.arkstructure.com e-mail: rechan6630@yahoo.co.in

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK: Package2, includes 5 works of Rs.245.00 lakhs 1)Improvements to Roads and Drains at Mariyannapalya Church to Defence Layout and Dynasty Layout in Ward No:06 Byatarayanapura Sub Division. 2)Improvements to Drains and Asphalting to Roads at Balaji layout Near Railway Gate in Ward No:06 Byatarayanapura Sub Division. 3)Improvements to Drains and Asphalting to Roads at Vidyasagara Layout and Surrounding area in Ward No: 06 Byatarayanapura Sub Division. 4)Improvements to Drains and Asphalting to Roads at Bharathnagara saw mill Road in Ward No: 06 Byatarayanapura Sub Division. 5) Improvements to Drains and Asphalting to Roads at Shiradi Sai Nagar and Hegadenagar in Ward No:06 Byatarayanapura Sub Division.

PROJECT NAME:- 2)Improvements to Drains and Asphalting to Roads at Balaji layout Near Railway Gate in Ward No:06 Byatarayanapura Sub Division.

Agency: Sri. G. Venkatesh No. 623/A,11th main HAL 2nd Stage, Indiranagar, Bangalore-560 008

Measurements Taken On :

MEASUREMENT SHEET - 2nd and PART BILL

Chainage		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
Item No. 01		Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neately dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. and as per the directions of the Engineer-in-charge of the work .							
		New Drain							
		Balaji Layout (Wajid layout)							
		1st Cross Road							
0	30		Cum	1	30.00	1.10	0.60	19.80	
30	43		Cum	1	13.00	1.10	0.60	8.58	
43	73		Cum	1	30.00	1.10	0.75	24.75	
73	88		Cum	1	15.00	1.10	0.75	12.38	
88	127		Cum	1	39.00	1.10	0.90	38.61	
127	157		Cum	1	30.00	1.10	1.05	34.65	
157	191		Cum	1	34.00	1.10	1.05	39.27	
191	221		Cum	1	30.00	1.10	0.75	24.75	
221	231		Cum	1	10.00	1.10	0.75	8.25	
231	261		Cum	1	30.00	1.10	1.05	34.65	
261	271		Cum	1	10.00	1.10	1.05	11.55	
		2nd Cross Road							
0	27		Cum	1	27.00	1.10	0.60	17.82	
27	57		Cum	1	30.00	1.10	0.75	24.75	
57	97		Cum	1	40.00	1.10	0.90	39.60	
97	127		Cum	1	30.00	1.10	1.05	34.65	
127	157		Cum	1	30.00	1.10	1.05	34.65	
157	187		Cum	1	30.00	1.10	1.05	34.65	
187	217		Cum	1	30.00	1.10	1.05	34.65	

Contactor

RUDRAPRASAD CONSULTANTS BANGALORE PMC

Assistant Engineer

Assistant Executive Engineer

MEASUREMENT SHEET - 2nd and PART BILL									
Chainage		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
217	247		Cum	1	30.00	1.10	1.05	34.65	
247	275		Cum	1	28.00	1.10	1.05	32.34	
		Culvert							
		2nd Cross Road							
			Cum	1	10.50	2.00	1.05	22.11	
		1st Cross Road	Cum	1	7.00	2.00	1.05	14.74	
		Desilt							
		Sobha Appartment							
		Left Side							
0	30		Cum	1	30.00	0.45	0.60	8.10	
30	60		Cum	1	30.00	0.45	0.60	8.10	
60	90		Cum	1	30.00	0.45	0.60	8.10	
90	120		Cum	1	30.00	0.45	0.60	8.10	
120	150		Cum	1	30.00	0.45	0.60	8.10	
150	180		Cum	1	30.00	0.45	0.60	8.10	
180	207		Cum	1	27.00	0.45	0.60	7.29	
		Right Side							
0	30		Cum	1	30.00	0.45	0.60	8.10	
30	60		Cum	1	30.00	0.45	0.60	8.10	
60	90		Cum	1	30.00	0.45	0.60	8.10	
90	120		Cum	1	30.00	0.45	0.60	8.10	
120	150		Cum	1	30.00	0.45	0.60	8.10	
150	180		Cum	1	30.00	0.45	0.60	8.10	
180	207		Cum	1	27.00	0.45	0.60	7.29	
		Railways mens layout Cross Road							
		Left Side							
0	30		Cum	1	30.00	0.45	0.60	8.10	
30	60		Cum	1	30.00	0.45	0.60	8.10	
60	90		Cum	1	30.00	0.45	0.60	8.10	
90	117		Cum	1	27.00	0.45	0.60	7.29	
		Right Side							
0	30		Cum	1	30.00	0.45	0.60	8.10	
30	60		Cum	1	30.00	0.45	0.60	8.10	
60	90		Cum	1	30.00	0.45	0.60	8.10	
90	117		Cum	1	27.00	0.45	0.60	7.29	
		Railways mens layout Cross Road							
		Left Side							
0	30		Cum	1	30.00	0.45	0.60	8.10	
30	60		Cum	1	30.00	0.45	0.60	8.10	
60	90		Cum	1	30.00	0.45	0.60	8.10	
90	120		Cum	1	30.00	0.45	0.60	8.10	
120	145		Cum	1	25.00	0.45	0.60	6.75	

Contactor

RUDRAPRASAD CONSULTANTS BANGALORE PMC

Assistant Engineer

Assistant Executive Engineer

MEASUREMENT SHEET - 2nd and PART BILL									
Chainage		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
		Right Side							
0	30		Cum	1	30.00	0.45	0.60	8.10	
30	60		Cum	1	30.00	0.45	0.60	8.10	
60	90		Cum	1	30.00	0.45	0.60	8.10	
90	120		Cum	1	30.00	0.45	0.60	8.10	
120	145		Cum	1	25.00	0.45	0.60	6.75	
		Railways mens layout Cross Road							
		Left Side							
0	30		Cum	1	30.00	0.45	0.60	8.10	
30	60		Cum	1	30.00	0.45	0.60	8.10	
60	90		Cum	1	30.00	0.45	0.60	8.10	
90	120		Cum	1	30.00	0.45	0.60	8.10	
120	150		Cum	1	30.00	0.45	0.60	8.10	
150	180		Cum	1	30.00	0.45	0.60	8.10	
		Right Side							
0	30		Cum	1	30.00	0.45	0.60	8.10	
30	60		Cum	1	30.00	0.45	0.60	8.10	
60	90		Cum	1	30.00	0.45	0.60	8.10	
90	120		Cum	1	30.00	0.45	0.60	8.10	
120	150		Cum	1	30.00	0.45	0.60	8.10	
150	180		Cum	1	30.00	0.45	0.60	8.10	
		New Bs Slab Drain							
		Railways mens layout Main Road							
		Left Side							
0	30		Cum	1	30.00	0.60	0.60	10.80	
30	60		Cum	1	30.00	0.60	0.60	10.80	
60	90		Cum	1	30.00	0.60	0.60	10.80	
90	120		Cum	1	30.00	0.60	0.60	10.80	
120	150		Cum	1	30.00	0.60	0.60	10.80	
150	180		Cum	1	30.00	0.60	0.60	10.80	
180	210		Cum	1	30.00	0.60	0.60	10.80	
210	248		Cum	1	38.00	0.60	0.60	13.68	
		Right Side							
0	30		Cum	1	30.00	0.60	0.60	10.80	
30	60		Cum	1	30.00	0.60	0.60	10.80	
60	90		Cum	1	30.00	0.60	0.60	10.80	
90	120		Cum	1	30.00	0.60	0.60	10.80	
120	150		Cum	1	30.00	0.60	0.60	10.80	
150	180		Cum	1	30.00	0.60	0.60	10.80	
180	210		Cum	1	30.00	0.60	0.60	10.80	
210	248		Cum	1	38.00	0.60	0.60	13.68	

Contactor

RUDRAPRASAD CONSULTANTS BANGALORE
PMC

Assistant Engineer

Assistant Executive Engineer

MEASUREMENT SHEET - 2nd and PART BILL									
Chainage		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
		Railways mens layout Cross Road							
		Left Side							
0	30		Cum	1	30.00	0.60	0.60	10.80	
30	60		Cum	1	30.00	0.60	0.60	10.80	
60	90		Cum	1	30.00	0.60	0.60	10.80	
90	120		Cum	1	30.00	0.60	0.60	10.80	
120	150		Cum	1	30.00	0.60	0.60	10.80	
150	160		Cum	1	10.00	0.60	0.60	3.60	
		Cross Road							
0	34		Cum	1	34.00	0.60	0.60	12.24	
							TOTAL	**1180.71**	

Contactor

PMC

Assistant Engineer

Assistant Executive Engineer

MEASUREMENT SHEET - 2nd and PART BILL									
Chainage		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
Item no.02		**Providing granite slabs of selected quality roughly dressed having a size of 7.5cms thick and fixed in cement mortar (1:6) includling fixing curing etc and as per specifications and as per the direction of Engineer in charge of the work.**							
		New Bs Slab Drain							
		Railways mens layout Main Road							
		Left Side							
0	30		Sqm	1	30.00	1.35		40.50	
30	60		Sqm	1	30.00	1.35		40.50	
60	90		Sqm	1	30.00	1.35		40.50	
90	120		Sqm	1	30.00	1.35		40.50	
120	150		Sqm	1	30.00	1.35		40.50	
150	180		Sqm	1	30.00	1.35		40.50	
180	210		Sqm	1	30.00	1.35		40.50	
210	248		Sqm	1	38.00	1.35		51.30	
		Right Side							
0	30		Sqm	1	30.00	1.35		40.50	
30	60		Sqm	1	30.00	1.35		40.50	
60	90		Sqm	1	30.00	1.35		40.50	
90	120		Sqm	1	30.00	1.35		40.50	
120	150		Sqm	1	30.00	1.35		40.50	
150	180		Sqm	1	30.00	1.35		40.50	
180	210		Sqm	1	30.00	1.35		40.50	
210	248		Sqm	1	38.00	1.35		51.30	
		Railways mens layout Cross Road							
		Left Side							
0	30		Sqm	1	30.00	1.35		40.50	
30	60		Sqm	1	30.00	1.35		40.50	
60	90		Sqm	1	30.00	1.35		40.50	
90	120		Sqm	1	30.00	1.35		40.50	
120	150		Sqm	1	30.00	1.35		40.50	
150	160		Sqm	1	10.00	1.35		13.50	
		Cross Road							
0	34		Cum	1	34.00	1.35		45.90	
							TOTAL	**931.50**	

Contactor

PMC

Assistant Engineer

Assistant Executive Engineer

MEASUREMENT SHEET - 2nd and PART BILL									
Chainage		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
Item no.14		Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. and as per the directions of the Engineer-in-charge of the work .							
		Balaji Layout (Wajid layout)							
		1st Cross Road							
0	30		Cum	1	30.00	1.10	0.15	4.95	
30	43		Cum	1	13.00	1.10	0.15	2.15	
43	73		Cum	1	30.00	1.10	0.15	4.95	
73	88		Cum	1	15.00	1.10	0.15	2.48	
88	127		Cum	1	39.00	1.10	0.15	6.44	
127	157		Cum	1	30.00	1.10	0.15	4.95	
157	191		Cum	1	34.00	1.10	0.15	5.61	
191	221		Cum	1	30.00	1.10	0.15	4.95	
221	231		Cum	1	10.00	1.10	0.15	1.65	
231	261		Cum	1	30.00	1.10	0.15	4.95	
261	271		Cum	1	10.00	1.10	0.15	1.65	
		2nd Cross Road							
0	27		Cum	1	27.00	1.10	0.15	4.46	
27	57		Cum	1	30.00	1.10	0.15	4.95	
57	97		Cum	1	40.00	1.10	0.15	6.60	
97	127		Cum	1	30.00	1.10	0.15	4.95	
127	157		Cum	1	30.00	1.10	0.15	4.95	
157	187		Cum	1	30.00	1.10	0.15	4.95	
187	217		Cum	1	30.00	1.10	0.15	4.95	
217	247		Cum	1	30.00	1.10	0.15	4.95	
247	275		Cum	1	28.00	1.10	0.15	4.62	
		Culvert							
		2nd Cross Road							
			Cum	1	10.50	2.00	0.15	3.15	
		1st Cross Road	Cum	1	7.00	2.00	0.15	2.10	
							TOTAL	**95.34**	

Contactor

PMC

Assistant Engineer

Assistant Executive Engineer

MEASUREMENT SHEET - 2nd and PART BILL									
Chainage		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
Item no.11		Providing and removing centering, shuttering, strutting, propping etc, for columns, pillars, post and strts, square / rectanagular / polygon in plan including cost of all materials, labour complete as per specification. and as per the directions of the Engineer-in-charge of the work .							
		1st Cross Road							
0	30		Sqm	4	30.00		0.30	36.00	
30	43		Sqm	4	13.00		0.30	15.60	
43	73		Sqm	4	30.00		0.45	54.00	
73	88		Sqm	4	15.00		0.45	27.00	
88	127		Sqm	4	39.00		0.60	93.60	
127	157		Sqm	4	30.00		0.75	90.00	
157	191		Sqm	4	34.00		0.75	102.00	
191	221		Sqm	4	30.00		0.45	54.00	
221	231		Sqm	4	10.00		0.45	18.00	
231	261		Sqm	4	30.00		0.75	90.00	
261	271		Sqm	4	10.00		0.75	30.00	
		2nd Cross Road							
0	27		Sqm	4	27.00		0.30	32.40	
27	57		Sqm	4	30.00		0.45	54.00	
57	97		Sqm	4	40.00		0.60	96.00	
97	127		Sqm	4	30.00		0.75	90.00	
127	157		Sqm	4	30.00		0.75	90.00	
157	187		Sqm	4	30.00		0.75	90.00	
187	217		Sqm	4	30.00		0.75	90.00	
217	247		Sqm	4	30.00		0.75	90.00	
247	275		Sqm	4	28.00		0.75	84.00	
		Culvert							
		2nd Cross Road							
			Sqm	4	10.50		0.75	31.50	
		1st Cross Road	Sqm	4	7.00		0.75	21.00	
							TOTAL	1379.10	

Contactor

PMC

Assistant Engineer

Assistant Executive Engineer

Sl No	Description	Nos	BAR DIA	No. Bars	Total No. bars	Length	Total Length	Weight	Total weight
			mm			m	m	kg/m	Kg's
Item no.13		**Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. and as per the directions of the Engineer-in-charge of the work .**							
	Balaji Layout (Wajid layout)								
	1st Cross Road								
	Main Bars (#12@180 c/c)	1	12	1507	1507	2.70	4067.70	0.887814	3611.36
	Distribution(9-#8)	1	8	9	9	271.00	2439.00	0.394584	962.39
	2nd Cross Road								
	Main Bars (#12@180 c/c)	1	12	1529	1529	2.70	4127.70	0.887814	3664.63
	Distribution(9-#8)	1	8	9	9	275.00	2475.00	0.394584	976.60
	Culvert								
	1st Cross Road								
	side wall								
	Main Bars outer face (#16@200 c/c)	2	16	54	107	3.70	395.90	1.578336	624.86
	Main Bars inner face (#16@200 c/c)	2	16	54	107	3.30	353.10	1.578336	557.31
	Distribution								
	side walls(9#10)	4	10	9	36	0.95	34.20	0.616538	21.09
	bottom slab(9-#10)	2	10	9	18	1.80	32.40	0.616538	19.98
	2nd Cross Road								
	side wall								
	Main Bars outer face (#16@200 c/c)	2	16	36	72	3.70	266.40	1.578336	420.47
	Main Bars inner face (#16@200 c/c)	2	16	36	72	3.30	237.60	1.578336	375.01
	Distribution								
	side walls(9#10)	4	10	9	36	0.97	34.92	0.616538	21.53
	bottom slab(9-#10)	2	10	9	18	1.80	32.40	0.616538	19.98
								TOTAL QTY IN KG'S	**11275.20**
								TOTAL QTY IN TONNE	**11.28**

Contractor

RUDRAPRASAD CONSULTANTS BANGALORE
PMC

Assistant Engineer

Assistant Executive Engineer

MEASUREMENT SHEET - 2nd and PART BILL									
Chainage		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
Item no.12		**Providing and laying in position reinforced cement concrete of Design mix M20 with OPC cement @320kgs, with 20mm and down size graded granite metal course aggregates @0.69cum and fine aggregates @0.460 cum, with super plasticisers @ 3 liters confirming to Is 9103-1999 reafirme-2008 machine mixed, concrete laid in layers not exceeding 15 cms thick vibrated for all works in foundation for footings pedastaals retaining walls return walls (any thickness) including attached pilasters columnspillars posts struts buttresses bed blocks anchor blocks & plinths etc. including cost of all materials labour HOM of machinery curing complete but excluding cost of reinforcement as per specifications. and as per the directions of the Engineer-in-charge of the work .**							
		Balaji Layout (Wajid layout)							
		Bottom Raft							
		1st Cross Road							
0	30		Cum	1	30.00	0.90	0.15	4.05	
30	43		Cum	1	13.00	0.90	0.15	1.76	
43	73		Cum	1	30.00	0.90	0.15	4.05	
73	88		Cum	1	15.00	0.90	0.15	2.03	
88	127		Cum	1	39.00	0.90	0.15	5.27	
127	157		Cum	1	30.00	0.90	0.15	4.05	
157	191		Cum	1	34.00	0.90	0.15	4.59	
191	221		Cum	1	30.00	0.90	0.15	4.05	
221	231		Cum	1	10.00	0.90	0.15	1.35	
231	261		Cum	1	30.00	0.90	0.15	4.05	
261	271		Cum	1	10.00	0.90	0.15	1.35	
		2nd Cross Road							
0	27		Cum	1	27.00	0.90	0.15	3.65	
27	57		Cum	1	30.00	0.90	0.15	4.05	
57	97		Cum	1	40.00	0.90	0.15	5.40	
97	127		Cum	1	30.00	0.90	0.15	4.05	
127	157		Cum	1	30.00	0.90	0.15	4.05	
157	187		Cum	1	30.00	0.90	0.15	4.05	
187	217		Cum	1	30.00	0.90	0.15	4.05	
217	247		Cum	1	30.00	0.90	0.15	4.05	
247	275		Cum	1	28.00	0.90	0.15	3.78	
		Culvert							
		2nd Cross Road							
			Cum	1	10.50	1.80	0.15	2.84	
		1st Cross Road	Cum	1	7.00	1.80	0.15	1.89	
		Side Wall							
		1st Cross Road							
0	30		Cum	2	30.00	0.15	0.30	2.70	
30	43		Cum	2	13.00	0.15	0.30	1.17	
43	73		Cum	2	30.00	0.15	0.45	4.05	
73	88		Cum	2	15.00	0.15	0.45	2.03	

Contactor

RUDRAPRASAD CONSULTANTS BANGALORE PMC

Assistant Engineer

Assistant Executive Engineer

MEASUREMENT SHEET - 2nd and PART BILL									
Chainage		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
88	127		Cum	2	39.00	0.15	0.60	7.02	
127	157		Cum	2	30.00	0.15	0.75	6.75	
157	191		Cum	2	34.00	0.15	0.75	7.65	
191	221		Cum	2	30.00	0.15	0.45	4.05	
221	231		Cum	2	10.00	0.15	0.45	1.35	
231	261		Cum	2	30.00	0.15	0.75	6.75	
261	271		Cum	2	10.00	0.15	0.75	2.25	
		2nd Cross Road							
0	27		Cum	2	27.00	0.15	0.30	2.43	
27	57		Cum	2	30.00	0.15	0.45	4.05	
57	97		Cum	2	40.00	0.15	0.60	7.20	
97	127		Cum	2	30.00	0.15	0.75	6.75	
127	157		Cum	2	30.00	0.15	0.75	6.75	
157	187		Cum	2	30.00	0.15	0.75	6.75	
187	217		Cum	2	30.00	0.15	0.75	6.75	
217	247		Cum	2	30.00	0.15	0.75	6.75	
247	275		Cum	2	28.00	0.15	0.75	6.30	
		Culvert							
		2nd Cross Road							
			Cum	2	10.50	0.20	0.75	3.15	
		1st Cross Road	Cum	2	7.00	0.20	0.75	2.10	
							TOTAL	**183.18**	

Contactor

PMC

Assistant Engineer

Assistant Executive Engineer

MEASUREMENT SHEET - 2nd and PART BILL									
Chainage		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
Item no.05		Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specifications. and as per the directions of the Engineer-in-charge of the work .							
		Balaji Layout (Wajid layout)							
		1st Cross Road							
0	30		Cum	1	30.00	2.75	0.30	24.75	
30	60		Cum	1	30.00	3.50	0.30	31.50	
60	90		Cum	1	30.00	5.25	0.30	47.25	
90	120		Cum	1	30.00	6.50	0.30	58.50	
120	150		Cum	1	30.00	6.55	0.30	58.95	
150	180		Cum	1	30.00	6.65	0.30	59.85	
180	210		Cum	1	30.00	6.65	0.30	59.85	
210	240		Cum	1	30.00	6.55	0.30	58.95	
240	271		Cum	1	31.00	6.60	0.30	61.38	
		2nd Cross Road							
0	30		Cum	1	30.00	6.70	0.30	60.30	
30	60		Cum	1	30.00	6.55	0.30	58.95	
60	90		Cum	1	30.00	6.55	0.30	58.95	
90	120		Cum	1	30.00	6.55	0.30	58.95	
120	150		Cum	1	30.00	6.45	0.30	58.05	
150	180		Cum	1	30.00	6.10	0.30	54.90	
180	210		Cum	1	30.00	6.25	0.30	56.25	
210	240		Cum	1	30.00	6.65	0.30	59.85	
240	275		Cum	1	35.00	6.40	0.30	67.20	
							TOTAL	**994.38**	

Contactor

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